

1. A filtration media comprising:
  - a) a layer of felt; and
  - b) a layer of woven screen;
  - c) the layer of felt and the layer of woven screen assembled on top of one another and held together with a sonic weld.
2. The filtration media of claim 1 wherein the filtration media is effective to trap particles of about 70 microns and larger.
3. The filtration media of claim 1 wherein the sonic weld comprises a plurality of spot welds.
4. The filtration media of claim 3 wherein the plurality of spot welds each have a diameter of about 0.025 inches.
5. The filtration media of claim 1 wherein the sonic weld occludes less than one percent of the surface of the filtration media.
6. A filter comprising:
  - a) a housing;
  - b) at least two non-identical layers of filtration material, assembled on top of one another, disposed within the housing; and
  - c) the at least two layers of filtration material being held together with a sonic weld.
7. The filter of claim 6 wherein the at least two layers of filtration material comprise a layer of felt and a layer of woven screen.
8. The filter of claim 6 wherein the sonic weld comprises a plurality of spot welds.
9. The filter of claim 8 wherein the plurality of spot welds each have a diameter of about 0.025 inches.
10. The filter of claim 6 wherein the sonic weld occludes less than one percent of the surface of the at least two layers of filtration material.

11. The filter of claim 6 wherein the filter comprises a transmission fluid filter.

12. The filter of claim 6 wherein the filter is effective to trap particles of about 70 microns and larger.

13. A method of manufacturing a filtration media effective in trapping particles of about 70 microns and larger, the method comprising the steps of:

- a) placing at least two layers of filtration material on top of one another; and
- b) applying a sonic weld to hold together the at least two layers
- c) the sonic weld being applied across a surface of the at least the two layers.

14. The method of claim 13 wherein the at least two layers of filtration material further comprise a layer of felt and a layer of woven screen.

15. The method of claim 13 wherein the step of applying the sonic weld comprises applying a plurality of spot welds.

16. The method of claim 15 wherein the step of applying the plurality of spot welds creates about 0.025 inch diameter weld spots in the filtration media.

17. The method of claim 13 wherein the step of applying the sonic weld occludes less than one percent of the filtration media.

18. The method of claim 13 wherein the sonic weld further comprises the step of operating a sonic driver having a roller comprising a plurality of truncated cone-shaped protrusions.

19. The method of claim 18 wherein the plurality of truncated cone-shaped protrusions comprise 30° angled sides and flat, round ends of about 0.025 inch diameter.

20. The method of claim 18 wherein the roller continuously feeds the assembled layers through an apparatus for sonic welding.

21. The method of claim 14 wherein the step of applying the sonic weld further comprises applying the sonic weld to the layer of felt assembled on top of the layer of woven screen.

22. A method of filtration comprising the steps of:

a) providing a filter comprising:

i) a housing; and

ii) at least two layers of filtration material, assembled on top of one another, disposed within the housing;

iii) wherein the at least two layers of filtration material are held together with a sonic weld; and

b) passing a fluid through the filter housing such that the fluid passes through the filtration material.

23. The method of claim 22 wherein the at least two layers of filtration material further comprise a layer of felt and a layer of woven screen.

24. The method of claim 23 wherein the step of passing the fluid through the filter comprises passing the fluid through the layer of felt and then through the layer of woven screen.

25. The method of claim 22 wherein the step of providing the filter comprises providing a transmission fluid filter.